

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: 253P169

Luminaire Tested: **1215-XX-36-CFL/6/55-T5C/1/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P169
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1215-XX-36-CFL/6/55-T5C/1/40
Description: SHAPER 36 INCH 1215 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH SHALLOW BOWL
Light Source: SIX 55 WATT BIAx COMPACT FLUORESCENT LAMPS AND ONE 40 WATT T5 CIRCLINE
(6)F55BX - 4800 LUMENS AND (1)TL5C40W/830 - 3300 LUMENS
Ballast/Driver: -

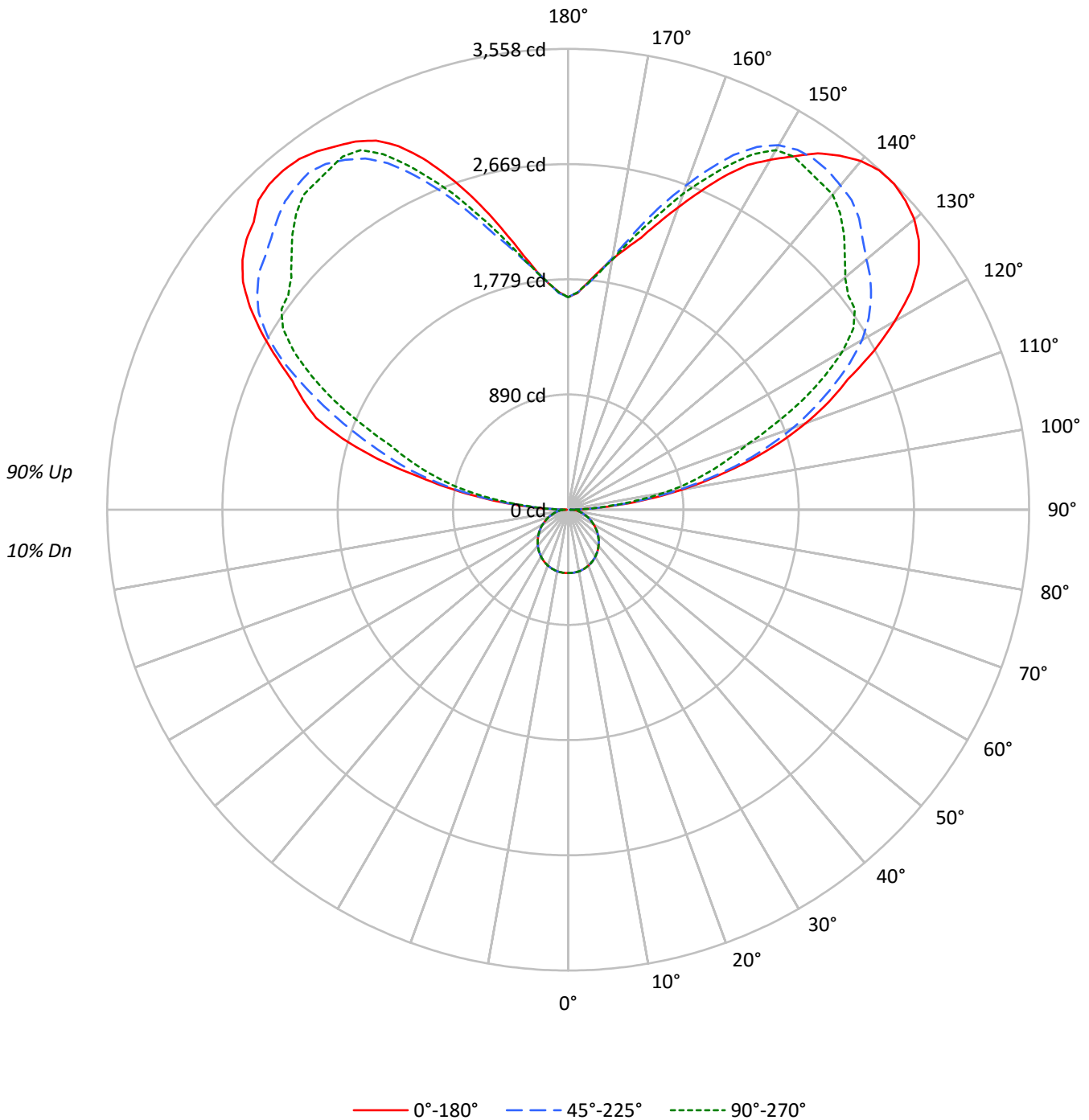
Summary

Lumens per Lamp: 32100 (1 lamp)
Luminaire Lumens: 14795.1 lumens
Efficiency: 46.1%
Efficacy: 344.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 0.52')
CIE Type: Semi-Indirect

Input Watts (W): 43
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	45	45	45	45	39	39	39	39	28	28	28	18	18	18	9	9	9	5
1	41	39	37	36	35	34	33	31	24	24	23	16	15	15	8	8	7	4
2	37	34	31	29	32	30	27	26	21	20	19	14	13	12	7	6	6	3
3	34	30	27	24	29	26	23	21	19	17	16	12	11	10	6	6	5	3
4	31	26	23	20	27	23	20	18	17	15	13	11	10	9	5	5	4	2
5	28	23	20	17	24	20	17	15	15	13	11	10	8	8	5	4	4	2
6	26	21	17	15	22	18	15	13	13	11	10	9	7	6	4	4	3	2
7	24	19	15	13	21	16	13	11	12	10	8	8	7	6	4	3	3	1
8	22	17	13	11	19	15	12	10	11	9	7	7	6	5	4	3	3	1
9	20	15	12	10	18	13	11	9	10	8	7	6	5	4	3	3	2	1
10	19	14	11	9	16	12	9	8	9	7	6	6	5	4	3	2	2	1

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	745	745	745
5°	732	732	732
10°	719	719	719
15°	704	704	704
20°	688	688	688
25°	672	672	672
30°	652	652	652
35°	633	633	633
40°	610	610	610
45°	587	587	587
50°	561	561	561
55°	533	533	533
60°	500	500	500
65°	464	464	464
70°	427	427	427
75°	390	390	390
80°	354	354	354
85°	322	322	322



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	46.4	0.3	0.1
10°-20°	133.5	0.9	0.4
20°-30°	203.1	1.4	0.6
30°-40°	245.8	1.7	0.8
40°-50°	256.7	1.7	0.8
50°-60°	235.8	1.6	0.7
60°-70°	188.3	1.3	0.6
70°-80°	128.2	0.9	0.4
80°-90°	67.8	0.5	0.2
90°-100°	401.7	2.7	1.3
100°-110°	1395.7	9.4	4.3
110°-120°	2197.7	14.9	6.8
120°-130°	2585.5	17.5	8.1
130°-140°	2464.7	16.7	7.7
140°-150°	2054.8	13.9	6.4
150°-160°	1363.5	9.2	4.2
160°-170°	652.1	4.4	2.0
170°-180°	174.1	1.2	0.5
0°-30°	382.9	2.6	1.2
0°-40°	628.7	4.2	2.0
0°-60°	1121.2	7.6	3.5
0°-90°	1505.4	10.2	4.7
90°-120°	3995.1	27.0	12.4
90°-150°	11100.1	75.0	34.6
90°-180°	13290.0	89.8	41.4
0°-180°	14795.1	100.0	46.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	489	489	489	489	489	
5°	488	488	488	488	488	46
15°	473	473	473	473	473	133
25°	441	441	441	441	441	203
35°	393	393	393	393	393	246
45°	333	333	333	333	333	257
55°	264	264	264	264	264	236
65°	190	190	190	190	190	188
75°	121	121	121	121	121	128
85°	65	65	65	65	65	58
90°	21	12	16	15	13	33
95°	354	334	297	344	375	405
105°	1434	1378	1127	1334	1529	1506
115°	2382	2254	1991	2239	2347	2390
125°	3302	2853	2701	2929	3064	2922
135°	3558	3176	3009	3174	3380	2738
145°	3359	3305	3210	3259	3378	2102
155°	2837	3022	2935	2863	3098	1316
165°	2173	2310	2253	2201	2362	630
175°	1761	1751	1757	1757	1754	174
180°	1641	1641	1641	1641	1641	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	489	489	489	489	489	489	489	489	489
2.5°	489	489	489	489	489	489	489	489	489
5°	488	488	488	488	488	488	488	488	488
7.5°	486	486	486	486	486	486	486	486	486
10°	483	483	483	483	483	483	483	483	483
12.5°	478	478	478	478	478	478	478	478	478
15°	473	473	473	473	473	473	473	473	473
17.5°	466	466	466	466	466	466	466	466	466
20°	459	459	459	459	459	459	459	459	459
22.5°	450	450	450	450	450	450	450	450	450
25°	441	441	441	441	441	441	441	441	441
27.5°	430	430	430	430	430	430	430	430	430
30°	418	418	418	418	418	418	418	418	418
32.5°	406	406	406	406	406	406	406	406	406
35°	393	393	393	393	393	393	393	393	393
37.5°	379	379	379	379	379	379	379	379	379
40°	364	364	364	364	364	364	364	364	364
42.5°	349	349	349	349	349	349	349	349	349
45°	333	333	333	333	333	333	333	333	333
47.5°	316	316	316	316	316	316	316	316	316
50°	299	299	299	299	299	299	299	299	299
52.5°	282	282	282	282	282	282	282	282	282
55°	264	264	264	264	264	264	264	264	264
57.5°	245	245	245	245	245	245	245	245	245
60°	227	227	227	227	227	227	227	227	227
62.5°	208	208	208	208	208	208	208	208	208
65°	190	190	190	190	190	190	190	190	190
67.5°	172	172	172	172	172	172	172	172	172
70°	154	154	154	154	154	154	154	154	154
72.5°	137	137	137	137	137	137	137	137	137
75°	121	121	121	121	121	121	121	121	121
77.5°	105	105	105	105	105	105	105	105	105
80°	91	91	91	91	91	91	91	91	91
82.5°	77	77	77	77	77	77	77	77	77
85°	65	65	65	65	65	65	65	65	65
87.5°	54	54	54	54	54	54	54	54	54
90°	21	12	12	14	16	20	15	11	13
92.5°	143	116	126	142	130	145	126	116	140
95°	354	323	334	366	297	343	344	308	375
97.5°	618	562	587	615	525	610	595	552	627
100°	894	817	852	875	751	876	860	806	901
102.5°	1151	1053	1110	1138	950	1126	1106	1049	1184
105°	1434	1260	1378	1437	1127	1380	1334	1280	1529
107.5°	1703	1445	1616	1701	1298	1613	1541	1489	1827
110°	1951	1650	1847	1939	1469	1849	1762	1705	2070



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	2179	1896	2055	2120	1724	2081	2001	1941	2215
115°	2382	2146	2254	2290	1991	2304	2239	2170	2347
117.5°	2663	2373	2449	2492	2229	2572	2482	2371	2535
120°	2910	2555	2619	2680	2445	2801	2680	2539	2731
122.5°	3137	2690	2750	2835	2610	3002	2833	2663	2912
125°	3302	2768	2853	2964	2701	3127	2929	2752	3064
127.5°	3411	2825	2940	3067	2723	3224	3008	2818	3169
130°	3488	2865	3005	3136	2790	3288	3051	2880	3243
132.5°	3530	2939	3083	3199	2896	3340	3109	2974	3291
135°	3558	3024	3176	3290	3009	3387	3174	3070	3380
137.5°	3553	3106	3240	3340	3106	3409	3232	3149	3412
140°	3515	3164	3268	3362	3175	3404	3262	3193	3420
142.5°	3445	3208	3297	3368	3191	3378	3285	3229	3412
145°	3359	3209	3305	3353	3210	3322	3259	3250	3378
147.5°	3234	3193	3294	3324	3235	3229	3203	3261	3328
150°	3119	3143	3250	3279	3205	3135	3131	3221	3282
152.5°	3001	3029	3158	3198	3095	3019	3016	3119	3213
155°	2837	2879	3022	3071	2935	2858	2863	2972	3098
157.5°	2656	2717	2847	2902	2763	2683	2697	2796	2937
160°	2484	2549	2666	2718	2596	2511	2527	2621	2753
162.5°	2323	2376	2488	2530	2415	2344	2358	2447	2560
165°	2173	2217	2310	2343	2253	2190	2201	2278	2362
167.5°	2066	2081	2131	2156	2100	2073	2075	2111	2169
170°	1964	1951	1975	1989	1961	1961	1954	1964	1995
172.5°	1859	1845	1844	1852	1848	1856	1850	1841	1853
175°	1761	1755	1751	1756	1757	1760	1757	1750	1754
177.5°	1675	1675	1679	1683	1680	1676	1675	1678	1682
180°	1641	1641	1641	1641	1641	1641	1641	1641	1641

(END OF REPORT)